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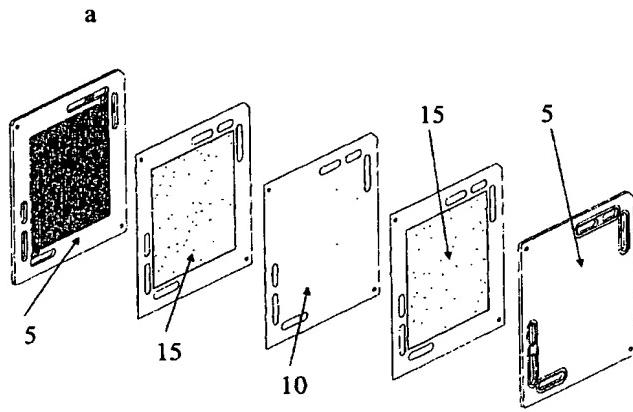
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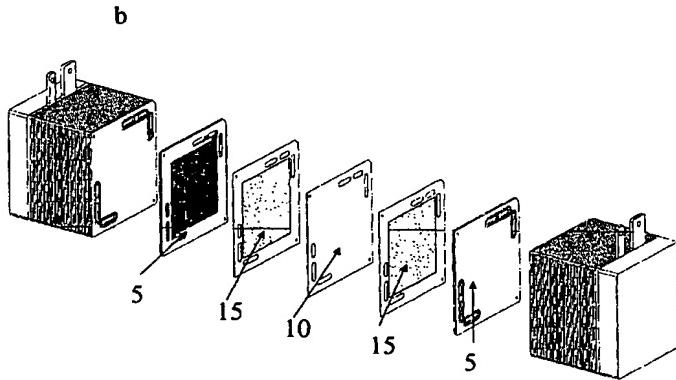
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(54) Title: ELECTROCHEMICAL CELL COMPONENT



(57) Abstract: An electroconductive integrated substrate and a process of producing the same, which comprises a porous conductive gas diffusion layer (15) having large number of pores with significant gas permeability, and a gas impermeable electroconductive flow field plate (5) having landing surfaces laminated on the surface of gas diffusion layer and integrally bonded to thereto by the molten composite from the landing surface. There is provided a process for joining the gas diffusion layer to a flow field plate in an electrochemical cell. The process comprises the step of welding the landing surface of the flow field plate to the gas diffusion layer using resistance welding.



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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 326 017 A (* MOTOROLA INC) 9 December 1998 (1998-12-09) page 5, line 15 - page 7, line 8 -----	1-12
X	US 5 733 678 A (LEDJEFF ET AL) 31 March 1998 (1998-03-31) column 1, line 58 - column 3, line 33 column 7, line 41 - column 9, line 8 -----	1-12
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 398 (C-538), 21 October 1988 (1988-10-21) & JP 63 140095 A (EBARA CORP; others: 01), 11 June 1988 (1988-06-11) abstract ----- -/-	1-12

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 189 297 A (MITSUI TAKEDA CHEMICALS, INC) 20 March 2002 (2002-03-20) paragraphs '0006! - '0013!, '0035! - '0041! -----	5
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## Information on patent family members

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